

PCT

## REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

For receiving Office use only

International Application No.

International Filing Date

Name of receiving Office and "PCT International Application"

Applicant's or agent's file reference  
(if desired) (12 characters maximum) PA/GP03 PCTBox No. I TITLE OF INVENTION  
PUTTER-HEADS

Box No. II APPLICANT

☒ This person is also inventor

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence (if no State of residence is indicated below.)

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Telephone No.

Facsimile No.

Teleprinter No.

Applicant's registration No. with the Office

State (that is, country) of nationality:

GB

State (that is, country) of residence:

GB

This person is applicant for the purposes of:



all designated States



all designated States except the United States of America



the United States of America only



the States indicated in the Supplemental Box

Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence (if no State of residence is indicated below.)

This person is:



applicant only



applicant and inventor



inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:

State (that is, country) of residence:

This person is applicant for the purposes of:



all designated States



all designated States except the United States of America



the United States of America only



the States indicated in the Supplemental Box

☐ Further applicants and/or (further) inventors are indicated on a continuation sheet.

Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE

The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:



agent



common representative

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

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Agent's registration No. with the Office

☐ Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

Sheet No. ...2...

**Box No. V DESIGNATION OF STATES***Mark the applicable check-boxes below; at least one must be marked.*

The following designations are hereby made under Rule 4.9(a):

**Regional Patent**

- ☒ **AP** ARIPO Patent: GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, MZ Mozambique, SD Sudan, SL Sierra Leone, SZ Swaziland, TZ United Republic of Tanzania, UG Uganda, ZM Zambia, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT (if other kind of protection or treatment desired, specify on dotted line) .....
- ☒ **EA** Eurasian Patent: AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT .....
- ☒ **EP** European Patent: AT Austria, BE Belgium, BG Bulgaria, CH & LI Switzerland and Liechtenstein, CY Cyprus, CZ Czech Republic, DE Germany, DK Denmark, EE Estonia, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, HU Hungary, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, RO Romania, SE Sweden, SI Slovenia, SK Slovakia, TR Turkey, and any other State which is a Contracting State of the European Patent Convention and of the PCT .....
- ☒ **OA** OAPI Patent: BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GQ Equatorial Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired, specify on dotted line) .....

**National Patent (if other kind of protection or treatment desired, specify on dotted line):**

- |                                                                                 |                                                                                        |                                                                               |
|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> AE United Arab Emirates .....               | <input checked="" type="checkbox"/> HR Croatia .....                                   | <input checked="" type="checkbox"/> OM Oman .....                             |
| <input checked="" type="checkbox"/> AG Antigua and Barbuda .....                | <input checked="" type="checkbox"/> HU Hungary .....                                   | <input checked="" type="checkbox"/> PG Papua New Guinea .....                 |
| <input checked="" type="checkbox"/> AL Albania .....                            | <input checked="" type="checkbox"/> ID Indonesia .....                                 | <input checked="" type="checkbox"/> PH Philippines .....                      |
| <input checked="" type="checkbox"/> AM Armenia .....                            | <input checked="" type="checkbox"/> IL Israel .....                                    | <input checked="" type="checkbox"/> PL Poland .....                           |
| <input checked="" type="checkbox"/> AT Austria .....                            | <input checked="" type="checkbox"/> IN India .....                                     | <input checked="" type="checkbox"/> PT Portugal .....                         |
| <input checked="" type="checkbox"/> AU Australia .....                          | <input checked="" type="checkbox"/> IS Iceland .....                                   | <input checked="" type="checkbox"/> RO Romania .....                          |
| <input checked="" type="checkbox"/> AZ Azerbaijan .....                         | <input checked="" type="checkbox"/> JP Japan .....                                     | <input checked="" type="checkbox"/> RU Russian Federation .....               |
| <input checked="" type="checkbox"/> BA Bosnia and Herzegovina .....             | <input checked="" type="checkbox"/> KE Kenya .....                                     | <input checked="" type="checkbox"/> SC Seychelles .....                       |
| <input checked="" type="checkbox"/> BB Barbados .....                           | <input checked="" type="checkbox"/> KG Kyrgyzstan .....                                | <input checked="" type="checkbox"/> SD Sudan .....                            |
| <input checked="" type="checkbox"/> BG Bulgaria .....                           | <input checked="" type="checkbox"/> KP Democratic People's Republic of Korea .....     | <input checked="" type="checkbox"/> SE Sweden .....                           |
| <input checked="" type="checkbox"/> BR Brazil .....                             | <input checked="" type="checkbox"/> KR Republic of Korea .....                         | <input checked="" type="checkbox"/> SG Singapore .....                        |
| <input checked="" type="checkbox"/> BY Belarus .....                            | <input checked="" type="checkbox"/> KZ Kazakhstan .....                                | <input checked="" type="checkbox"/> SK Slovakia .....                         |
| <input checked="" type="checkbox"/> BZ Belize .....                             | <input checked="" type="checkbox"/> LC Saint Lucia .....                               | <input checked="" type="checkbox"/> SL Sierra Leone .....                     |
| <input checked="" type="checkbox"/> CA Canada .....                             | <input checked="" type="checkbox"/> LK Sri Lanka .....                                 | <input checked="" type="checkbox"/> SY Syrian Arab Republic .....             |
| <input checked="" type="checkbox"/> CH & LI Switzerland and Liechtenstein ..... | <input checked="" type="checkbox"/> LR Liberia .....                                   | <input checked="" type="checkbox"/> TJ Tajikistan .....                       |
| <input checked="" type="checkbox"/> CN China .....                              | <input checked="" type="checkbox"/> LS Lesotho .....                                   | <input checked="" type="checkbox"/> TM Turkmenistan .....                     |
| <input checked="" type="checkbox"/> CO Colombia .....                           | <input checked="" type="checkbox"/> LT Lithuania .....                                 | <input checked="" type="checkbox"/> TN Tunisia .....                          |
| <input checked="" type="checkbox"/> CR Costa Rica .....                         | <input checked="" type="checkbox"/> LU Luxembourg .....                                | <input checked="" type="checkbox"/> TR Turkey .....                           |
| <input checked="" type="checkbox"/> CU Cuba .....                               | <input checked="" type="checkbox"/> LV Latvia .....                                    | <input checked="" type="checkbox"/> TT Trinidad and Tobago .....              |
| <input checked="" type="checkbox"/> CZ Czech Republic .....                     | <input checked="" type="checkbox"/> MA Morocco .....                                   | <input checked="" type="checkbox"/> TZ United Republic of Tanzania .....      |
| <input checked="" type="checkbox"/> DE Germany .....                            | <input checked="" type="checkbox"/> MD Republic of Moldova .....                       | <input checked="" type="checkbox"/> UA Ukraine .....                          |
| <input checked="" type="checkbox"/> DK Denmark .....                            | <input checked="" type="checkbox"/> MG Madagascar .....                                | <input checked="" type="checkbox"/> UG Uganda .....                           |
| <input checked="" type="checkbox"/> DM Dominica .....                           | <input checked="" type="checkbox"/> MK The former Yugoslav Republic of Macedonia ..... | <input checked="" type="checkbox"/> US United States of America .....         |
| <input checked="" type="checkbox"/> DZ Algeria .....                            | <input checked="" type="checkbox"/> MN Mongolia .....                                  | <input checked="" type="checkbox"/> UZ Uzbekistan .....                       |
| <input checked="" type="checkbox"/> EC Ecuador .....                            | <input checked="" type="checkbox"/> MW Malawi .....                                    | <input checked="" type="checkbox"/> VC Saint Vincent and the Grenadines ..... |
| <input checked="" type="checkbox"/> EE Estonia .....                            | <input checked="" type="checkbox"/> MX Mexico .....                                    | <input checked="" type="checkbox"/> VN Viet Nam .....                         |
| <input checked="" type="checkbox"/> ES Spain .....                              | <input checked="" type="checkbox"/> MZ Mozambique .....                                | <input checked="" type="checkbox"/> YU Serbia and Montenegro .....            |
| <input checked="" type="checkbox"/> FI Finland .....                            | <input checked="" type="checkbox"/> NI Nicaragua .....                                 | <input checked="" type="checkbox"/> ZA South Africa .....                     |
| <input checked="" type="checkbox"/> GB United Kingdom .....                     | <input checked="" type="checkbox"/> NO Norway .....                                    | <input checked="" type="checkbox"/> ZM Zambia .....                           |
| <input checked="" type="checkbox"/> GD Grenada .....                            | <input checked="" type="checkbox"/> NZ New Zealand .....                               | <input checked="" type="checkbox"/> ZW Zimbabwe .....                         |
| <input checked="" type="checkbox"/> GE Georgia .....                            |                                                                                        |                                                                               |
| <input checked="" type="checkbox"/> GH Ghana .....                              |                                                                                        |                                                                               |
| <input checked="" type="checkbox"/> GM Gambia .....                             |                                                                                        |                                                                               |

Check-boxes below reserved for designating States which have become party to the PCT after issuance of this sheet:

- ☒ EG Egypt .....

**Precautionary Designation Statement:** In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)



Sheet No. 4

**Box No. IX CHECK LIST: LANGUAGE OF FILING**

This international application contains:

- (a) in paper form, the following number of sheets:
- |                                                                                                                                       |   |           |
|---------------------------------------------------------------------------------------------------------------------------------------|---|-----------|
| request (including declaration sheets)                                                                                                | : | 4         |
| description (excluding sequence listings and/or tables related thereto)                                                               | : | 15        |
| claims                                                                                                                                | : | 3         |
| abstract                                                                                                                              | : |           |
| drawings                                                                                                                              | : | 5         |
| <b>Sub-total number of sheets</b>                                                                                                     | : | <b>27</b> |
| sequence listings                                                                                                                     | : |           |
| tables related thereto                                                                                                                | : |           |
| <i>(for both, actual number of sheets if filed in paper form, whether or not also filed in computer readable form; see (c) below)</i> |   |           |
| <b>Total number of sheets</b>                                                                                                         | : | <b>27</b> |

(b) ☐ only in computer readable form (Section 801(a)(i))

- (i) ☐ sequence listings  
(ii) ☐ tables related thereto

(c) ☐ also in computer readable form (Section 801(a)(ii))

- (i) ☐ sequence listings  
(ii) ☐ tables related thereto

Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are contained the

- ☐ sequence listings: .....  
☐ tables related thereto: .....  
*(additional copies to be indicated under items 9(ii) and/or 10(ii), in right column)*

This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):

- |                                                                                                                                                                                                                               |   |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--|
| 1. <input type="checkbox"/> fee calculation sheet                                                                                                                                                                             | : |  |
| 2. <input type="checkbox"/> original separate power of attorney                                                                                                                                                               | : |  |
| 3. <input type="checkbox"/> original general power of attorney                                                                                                                                                                | : |  |
| 4. <input checked="" type="checkbox"/> copy of general power of attorney; reference number, if any: .....                                                                                                                     | : |  |
| 5. <input type="checkbox"/> statement explaining lack of signature                                                                                                                                                            | : |  |
| 6. <input type="checkbox"/> priority document(s) identified in Box No. VI as item(s): .....                                                                                                                                   | : |  |
| 7. <input type="checkbox"/> translation of international application into (language): .....                                                                                                                                   | : |  |
| 8. <input type="checkbox"/> separate indications concerning deposited microorganism or other biological material                                                                                                              | : |  |
| 9. <input type="checkbox"/> sequence listings in computer readable form (Indicate type and number of carriers)                                                                                                                | : |  |
| (i) <input type="checkbox"/> copy submitted for the purposes of international search under Rule 13ter only (and not as part of the international application):                                                                | : |  |
| (ii) <input type="checkbox"/> (only where check-box (b)(i) or (c)(i) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Rule 13ter              | : |  |
| (iii) <input type="checkbox"/> together with relevant statement as to the identity of the copy or copies with the sequence listings mentioned in left column                                                                  | : |  |
| 10. <input type="checkbox"/> tables in computer readable form related to sequence listings (Indicate type and number of carriers)                                                                                             | : |  |
| (i) <input type="checkbox"/> copy submitted for the purposes of international search under Section 802(b-quater) only (and not as part of the international application)                                                      | : |  |
| (ii) <input type="checkbox"/> (only where check-box (b)(ii) or (c)(ii) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Section 802(b-quater) | : |  |
| (iii) <input type="checkbox"/> together with relevant statement as to the identity of the copy or copies with the tables mentioned in left column                                                                             | : |  |
| 11. <input type="checkbox"/> other (specify): .....                                                                                                                                                                           | : |  |

Number of items

Figure of the drawings which should accompany the abstract: 6a

Language of filing of the international application:

English

**Box No. X SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE**

Near to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).

  
COLES, Graham Frederick

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1. Date of actual receipt of the purported international application:	2. Drawings: <input type="checkbox"/> received:  <input type="checkbox"/> not received:
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:	
4. Date of timely receipt of the required corrections under PCT Article 11(2):	
5. International Searching Authority (if two or more are competent): ISA /	6. <input type="checkbox"/> Transmittal of search copy delayed until search fee is paid

For International Bureau use only

Date of receipt of the record copy by the International Bureau: